ABSTRACT OF THE DISCLOSURE

apparatus for inoculating a sample to or withdrawing a sample from a vessel or conduit includes internal sample cavity, a body with an operating rod movable to open and close an orifice to 5 the sample cavity and a coupler to attach the body to a port of the vessel or conduit. A portion of the sample cavity is formed by an endcap which includes orifice. The sample cavity is thermally electrically insulated from the vessel or conduit. This 10 insulation can arise from an empty or filled space between an inner wall and outer wall of the valve. Otherwise, insulating material can be used in forming the valve. The valve can be mountable on the vessel or conduit such that a positive drain angle is maintained regardless of whether the ferrule to the vessel or 15 conduit is inclined upwardly, downwardly is horizontal.